

	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments	Error Definition	Errors
1	BRS	L1	14961	fluorophore or fluorogenic	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/01/31 16:10			0
2	BRS	L2	5	h-dimer or (h-type adj dimer)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/01/31 16:10			0
3	BRS	L3	5	homo-doubly adj labeled	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/01/31 16:10			0
4	BRS	L4	6	2 or 3	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/01/31 16:11			0
5	BRS	L5	5	1 same 4	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/01/31 16:11			0
6	BRS	L6	1682	quenching same 1	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/01/31 16:56			0
7	BRS	L7	140	6 same (polypeptide or peptide)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/01/31 16:57			0
8	BRS	L8	43380	mammalian adj cell	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/01/31 16:57			0
9	BRS	L9	1	7 same 8	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/01/31 16:57			0
10	BRS	L10	1	5 same 8	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/01/31 16:57			0
11	BRS	L11	3990	homo\$1dimer	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/01/31 16:58			0
12	BRS	L12	49	1 same 11	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/01/31 16:58			0
13	BRS	L13	6	12 same (polypeptide or peptide)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/01/31 16:59			0
14	BRS	L14	1670	carboxytetramethylrhodamine or carboxyrhodamine-x or carboxyrhodamine-110 or diethylaminocoumarin or (carbocyanine adj dye)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/01/31 17:01			0

	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments	Error Definition	Error Count
15	BRS	L15	2	4 same 14	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/01/31 17:01			0
16	BRS	L16	43380	mammalian adj cell	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/01/31 17:02			0
17	BRS	L17	0	15 same 16	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/01/31 17:02			0
18	BRS	L18	12	packard adj beverly.in.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/01/31 17:02			0
19	BRS	L19	13	komoriya adj akira.in.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/01/31 17:02			0
20	BRS	L20	13	18 or 19	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/01/31 17:03			0
21	BRS	L21	5	20 and 4	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/01/31 17:03			0

> d his

(FILE 'HOME' ENTERED AT 17:04:42 ON 31 JAN 2004)

FILE 'MEDLINE, CAPLUS, BIOSIS, EMBASE, SCISEARCH, AGRICOLA'
ENTERED AT

17:05:02 ON 31 JAN 2004

L1 37247 S FLUOROPHORE OR FLUOROGENIC
L2 209 S H-DIMER OR (H-TYPE DIMER)
L3 2 S HOMO-DOUBLY LABELED
L4 209 S L2 OR L3
L5 6 S L1 (P) L4
L6 4 DUPLICATE REMOVE L5 (2 DUPLICATES REMOVED)
L7 148086 S MAMMALIAN CELL
L8 0 S L6 (P) L7
L9 4 S (PEPTIDE OR POLYPEPTIDE) (P) L6
L10 3554 S CARBOXYTETRAMETHYLRHODAMINE OR
CARBOXYRHODAMINE-X OR CARBOXYR
L11 2 S L10 (P) L4
L12 2 DUPLICATE REMOVE L11 (0 DUPLICATES REMOVED)
L13 0 S L12 NOT L6
L14 347 S PACKARD B?/AU
L15 302 S KOMORIYA A?/AU
L16 522 S L14 OR L15
L17 18 S L16 AND L4
L18 7 S L17 AND L1
L19 5 DUPLICATE REMOVE L18 (2 DUPLICATES REMOVED)
L20 1 S L19 NOT L6

=> log y

FILE 'MEDLINE' ENTERED AT 17:05:02 ON 31 JAN 2004

FILE 'CAPLUS' ENTERED AT 17:05:02 ON 31 JAN 2004
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FILE 'BIOSIS' ENTERED AT 17:05:02 ON 31 JAN 2004
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FILE 'SCISEARCH' ENTERED AT 17:05:02 ON 31 JAN 2004
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FILE 'AGRICOLA' ENTERED AT 17:05:02 ON 31 JAN 2004

=> s fluorophore or fluorogenic
L1 37247 FLUOROPHORE OR FLUOROGENIC

=> s h-dimer or (h-type dimer)
L2 209 H-DIMER OR (H-TYPE DIMER)

=> s homo-doubly labeled
L3 2 HOMO-DOUBLY LABELED

=> s l2 or l3
L4 209 L2 OR L3

=> s l1 (p) l4
L5 6 L1 (P) L4

=> duplicate remove l5
DUPLICATE PREFERENCE IS 'CAPLUS, SCISEARCH'
KEEP DUPLICATES FROM MORE THAN ONE FILE? Y/(N):n
PROCESSING COMPLETED FOR L5
L6 4 DUPLICATE REMOVE L5 (2 DUPLICATES REMOVED)

=> d l6 1-4 ibib abs

L6 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2003:874871 CAPLUS
DOCUMENT NUMBER: 139:360902
TITLE: Homo-doubly fluorophore-labeled peptides for the
detection of enzyme activity in biological samples
INVENTOR(S): Packard, Beverly; Komoriya, Akira
PATENT ASSIGNEE(S): USA
SOURCE: U.S. Pat. Appl. Publ., 42 pp., Cont.-in-part of Appl.
No. PCT/US00/24882.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 4
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2003207264	A1	20031106	US 2000-747287	20001222
US 6037137	A	20000314	US 1997-802981	19970220
WO 2001018238	A1	20010315	WO 2000-US24882	20000911
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
WO 2002061038	A2	20020808	WO 2001-US49781	20011221
WO 2002061038	C2	20021128		
WO 2002061038	A3	20030313		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,			

LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT,
RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US,
UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH,
CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR,
BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
EP 1356084 A2 20031029 EP 2001-998079 20011221
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
PRIORITY APPLN. INFO.:

US 1997-802981 A2 19970220
US 1999-394019 A2 19990910
WO 2000-US24882 A2 20000911
US 2000-747287 A 20001222
WO 2001-US49781 W 20011221

AB The present invention provides for novel reagents whose fluorescence changes upon cleavage or a change in conformation of a backbone. The reagents comprise a backbone (e.g. nucleic acid, polypeptide, etc.) joining two ***fluorophores*** of the same species whereby the ***fluorophores*** form an ***H*** - ***dimer*** resulting in quenching of the fluorescence of the ***fluorophores***. One such ***fluorophore*** -labeled peptide comprises DAIP(Nle)SIPKGY, where the ***fluorophore*** is linked to the N-terminus via the .alpha.-amino group of aspartic acid and to the .epsilon.silicon.-amino group of lysine by the displacement of a succinimidyl group linked to 6-carboxytetramethylrhodamine (6-TMR) or 5/6-carboxy-X-rhodamine. When the backbone is cleaved or changes conformation, the ***fluorophores*** are sepd., no longer forming an ***H*** - ***type*** ***dimer***, and are de-quenched thereby providing a detectable signal. The use of a single ***fluorophore*** rather than an "acceptor-donor" fluorescence resonance energy transfer system offers synthesis and performance advantages. An addnl. discovery of this invention is that attachment of a hydrophobic protecting group to a polypeptide enhances uptake of that polypeptide by a cell. A new class of profluorescent protease substrate was designed and synthesized with spectral properties that fit the exciton model.

L6 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2002:594968 CAPLUS
DOCUMENT NUMBER: 137:151788
TITLE: Homo-doubly labeled compositions for the detection of enzyme activity in biological samples
INVENTOR(S): Packard, Beverly S.; Komoriya, Akira
PATENT ASSIGNEE(S): Oncoimmunin, Inc., USA
SOURCE: PCT Int. Appl., 97 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 4
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002061038	A2	20020808	WO 2001-US49781	20011221
WO 2002061038	C2	20021128		
WO 2002061038	A3	20030313		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT,
RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US,
UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH,
CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR,
BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
US 2003207264 A1 20031106 US 2000-747287 20001222
EP 1356084 A2 20031029 EP 2001-998079 20011221
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, SI, LT, LV, FI, RO, MK, CY, AL, TR

PRIORITY APPLN. INFO.:

US 2000-747287 A 20001222
US 1997-802981 A2 19970220
US 1999-394019 A2 19990910
WO 2000-US24882 A2 20000911
WO 2001-US49781 W 20011221

AB The present invention provides for novel reagents whose fluorescence or absorption spectra change upon cleavage or a change in conformation of a backbone. Fluorescence or absorption spectra of these indicators change in the presence of active proteases, nucleases, glycosidases, and the

like. The reagents comprise a backbone (e.g. nucleic acid, polypeptide, etc.) joining two chromophores (e.g. ***fluorophores***) of the same species whereby the chromophores form an ***H*** - ***dimer*** resulting in quenching of the fluorescence of the ***fluorophores*** or a change in absorption spectra of the chromophores. When the backbone is cleaved or changes conformation, the chromophores are sepd., no longer forming an ***H*** - ***type*** ***dimer***, and are de-quenched thereby providing a detectable signal. The use of a single chromophore rather than an "acceptor-donor" fluorescence resonance energy transfer system offers synthesis and performance advantages.

L6 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 1

ACCESSION NUMBER: 1998:103406 CAPLUS
DOCUMENT NUMBER: 128:254447
TITLE: Intramolecular excitonic dimers in protease substrates: Modification of the backbone moiety to probe the H-dimer structure
AUTHOR(S): Packard, Beverly Z.; Komoriya, Akira; Nanda, Vikas; Brand, Ludwig
CORPORATE SOURCE: OncoImmunin Inc., College Park, MD, 20742, USA
SOURCE: Journal of Physical Chemistry B (1998), 102(10), 1820-1827
CODEN: JPCBFK; ISSN: 1089-5647
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English

AB NorFES (DAIPN1SIPKGY, N1 = norleucine) is an undecapeptide that contains a recognition sequence and cleavage site for the serine protease elastase. When NorFES is doubly labeled with a variety of ***fluorophores*** on opposite sides of this amino acid sequence, the fluorescence is quenched due to formation of intramol. ground-state dimers. Although the spectral characteristics of these dimers are predictable by exciton theory, influence of the peptide backbone on ***H*** - ***dimer*** formation is less well understood. Specifically, factors that modify the attractive forces between and orientation of dyes are not well-characterized. Thus, by varying the dye linker moieties, it was sought to evaluate the thermodyn. parameters for intramol. H-type dye-dye assocn. and the structures of these dimers. Data is presented from a series of ***homo*** - ***doubly*** ***labeled*** NorFES derivs. that differ by the addn. of one or two 6-aminohexanoic acids to the peptide backbone. By comparing absorption and fluorescence properties of these substrates as a function of temp., it was examd. how such addns. could modify dimerization; the free energy of activation (.DELTA.G.thermod.) for intramol. dimer disruption of each substrate was calcd. To gain further insight into dye-dye orientation, a NorFES substrate modified to facilitate intramol. H-dimerization was synthesized with different geometric dye isomers. The data show that length and conformation of the peptide plus linker as well as stereochem. of dye-peptide conjugation play important roles in intramol. ground-state complexation. The factors that influence the spectral properties of intramol. H-dimerization support earlier proposed model for ***H*** - ***dimers*** in NorFES peptides.

REFERENCE COUNT: 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 2

ACCESSION NUMBER: 1997:361577 CAPLUS
DOCUMENT NUMBER: 127:62451
TITLE: Structural characteristics of ***fluorophores*** that form intramolecular ***H*** - ***type*** ***dimers*** in a protease substrate
AUTHOR(S): Packard, Beverly Z.; Komoriya, Akira; Toptygin, Dmitri D.; Brand, Ludwig
CORPORATE SOURCE: OncoImmunin Inc., College Park, MD, 20742, USA
SOURCE: Journal of Physical Chemistry B (1997), 101(25), 5070-5074
CODEN: JPCBFK; ISSN: 1089-5647
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English

AB Recently, we designed and synthesized a new class of profluorescent protease substrates whose spectral properties fit the exciton model; more specifically, spectra of these polypeptides which were doubly labeled with rhodamines showed blue-shifted absorption peaks and fluorescence quenching, both indicators of ***H*** - ***dimer*** formation. In the work described here NorFES, an undecapeptide which is cleaved by the serine protease elastase, was homodoubly labeled on opposite sides of its

cleavage site with six ***fluorophores*** to identify structural elements of dyes which influence intramol. ***H*** - ***type***
 dimer formation. Absorption and fluorescence spectra of these six substrates obtained before and after enzymic cleavage indicate that the exciton band is strongest in the peptide doubly labeled with tetramethylrhodamine, followed by rhodamine-X, and then (diethylamino)coumarin. In contrast, spectra of NorFES homodoubly labeled with fluorescein, hydroxycoumarin, or pyrene do not exhibit exciton bands. These data suggest that factors significant in H-type dimerization are as follows (in decreasing order): delocalized charge, symmetry, and magnitude of the lowest energy electronic transition dipole. Surprisingly, in the group of ***fluorophores*** in this study, no evidence for hydrophobic interactions as an important influence was obsd.

=> s mammalian cell
 L7 148086 MAMMALIAN CELL

=> d his

(FILE 'HOME' ENTERED AT 17:04:42 ON 31 JAN 2004)

FILE 'MEDLINE, CAPLUS, BIOSIS, EMBASE, SCISEARCH, AGRICOLA' ENTERED AT 17:05:02 ON 31 JAN 2004

L1 37247 S FLUOROPHORE OR FLUOROGENIC
 L2 209 S H-DIMER OR (H-TYPE DIMER)
 L3 2 S HOMO-DOUBLY LABELED
 L4 209 S L2 OR L3
 L5 6 S L1 (P) L4
 L6 4 DUPLICATE REMOVE L5 (2 DUPLICATES REMOVED)
 L7 148086 S MAMMALIAN CELL

=> c 16 (p) 17

C IS NOT A RECOGNIZED COMMAND

The previous command name entered was not recognized by the system.
 For a list of commands available to you in the current file, enter "HELP COMMANDS" at an arrow prompt (=>).

=> s 16 (p) 17

PROXIMITY OPERATOR LEVEL NOT CONSISTENT WITH
 FIELD CODE - 'AND' OPERATOR ASSUMED 'L44 (P) L37'
 PROXIMITY OPERATOR LEVEL NOT CONSISTENT WITH
 FIELD CODE - 'AND' OPERATOR ASSUMED 'L48 (P) L39'
 PROXIMITY OPERATOR LEVEL NOT CONSISTENT WITH
 FIELD CODE - 'AND' OPERATOR ASSUMED 'L50 (P) L40'
 PROXIMITY OPERATOR LEVEL NOT CONSISTENT WITH
 FIELD CODE - 'AND' OPERATOR ASSUMED 'L52 (P) L41'
 PROXIMITY OPERATOR LEVEL NOT CONSISTENT WITH
 FIELD CODE - 'AND' OPERATOR ASSUMED 'L54 (P) L42'
 L8 0 L6 (P) L7

=> s (peptide or polypeptide) (p) 16

PROXIMITY OPERATOR LEVEL NOT CONSISTENT WITH
 FIELD CODE - 'AND' OPERATOR ASSUMED 'YPEPTIDE) (P) L57'
 PROXIMITY OPERATOR LEVEL NOT CONSISTENT WITH
 FIELD CODE - 'AND' OPERATOR ASSUMED 'YPEPTIDE) (P) L61'
 PROXIMITY OPERATOR LEVEL NOT CONSISTENT WITH
 FIELD CODE - 'AND' OPERATOR ASSUMED 'YPEPTIDE) (P) L63'
 PROXIMITY OPERATOR LEVEL NOT CONSISTENT WITH
 FIELD CODE - 'AND' OPERATOR ASSUMED 'YPEPTIDE) (P) L65'
 PROXIMITY OPERATOR LEVEL NOT CONSISTENT WITH
 FIELD CODE - 'AND' OPERATOR ASSUMED 'YPEPTIDE) (P) L67'
 L9 4 (PEPTIDE OR POLYPEPTIDE) (P) L6

=> s carboxytetramethylrhodamine or carboxyrhodamine-X or carboxyrhodamine-110 or diethylaminocoum
 L10 3554 CARBOXYTETRAMETHYL RHODAMINE OR CARBOXYRHODAMINE-X OR CARBOXYRHODAMINE-110 OR DIETHYLAMINOCOUMARIN OR (CARBOCYANINE DYE)

=> d his

(FILE 'HOME' ENTERED AT 17:04:42 ON 31 JAN 2004)

FILE 'MEDLINE, CAPLUS, BIOSIS, EMBASE, SCISEARCH, AGRICOLA' ENTERED AT 17:05:02 ON 31 JAN 2004

L1 37247 S FLUOROPHORE OR FLUOROGENIC
 L2 209 S H-DIMER OR (H-TYPE DIMER)
 L3 2 S HOMO-DOUBLY LABELED

L4 209 S L2 OR L3
L5 6 S L1 (P) L4
L6 4 DUPLICATE REMOVE L5 (2 DUPLICATES REMOVED)
L7 148086 S MAMMALIAN CELL
L8 0 S L6 (P) L7
L9 4 S (PEPTIDE OR POLYPEPTIDE) (P) L6
L10 3554 S CARBOXYTETRAMETHYLRHODAMINE OR CARBOXYRHODAMINE-X OR CARBOXYR

=> s l10 (p) l4
L11 2 L10 (P) L4

=> duplicate remove l11
PROCESSING COMPLETED FOR L11
L12 2 DUPLICATE REMOVE L11 (0 DUPLICATES REMOVED)

=> s l12 not l6
L13 0 L12 NOT L6

=> s packard b?/au
L14 347 PACKARD B?/AU

=> s komoriya a?/au
L15 302 KOMORIYA A?/AU

=> s l14 or l15
L16 522 L14 OR L15

=> s l16 and l4
L17 18 L16 AND L4

=> s l17 and l1
L18 7 L17 AND L1

=> duplicate remove l18
DUPLICATE PREFERENCE IS 'CAPLUS, SCISEARCH'
KEEP DUPLICATES FROM MORE THAN ONE FILE? Y/(N):n
PROCESSING COMPLETED FOR L18
L19 5 DUPLICATE REMOVE L18 (2 DUPLICATES REMOVED)

=> s l19 not l6
L20 1 L19 NOT L6

=> d l20 1 ibib abs

L20 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1998:605029 CAPLUS
DOCUMENT NUMBER: 129:213504
TITLE: Protease indicator substrates exhibiting increased
fluorescence due to conformational change following
cleavage
INVENTOR(S): ***Komoriya, Akira*** ; ***Packard, Beverly S.***
PATENT ASSIGNEE(S): Oncoimmunin, Inc., USA
SOURCE: PCT Int. Appl., 90 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 4
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9837226	A1	19980827	WO 1998-US3000	19980220
W:	AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG			
US 6037137	A	20000314	US 1997-802981	19970220
AU 9866567	A1	19980909	AU 1998-66567	19980220
AU 745148	B2	20020314		
EP 988394	A1	20000329	EP 1998-908564	19980220
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI			
JP 2001514492	T2	20010911	JP 1998-536778	19980220

PRIORITY APPLN. INFO.:

US 1997-802981 A 19970220

WO 1998-US3000 W 19980220

OTHER SOURCE(S): MARPAT 129:213504

AB The present invention provides for novel reagents whose fluorescence increases in the presence of particular proteases. The reagents comprise a characteristically folded peptide backbone each end of which is conjugated to a ***fluorophore***. When the folded peptide is cleaved, as by digestion with a protease, the ***fluorophores*** provide a high intensity fluorescent signal at a visible wavelength. Because of their high fluorescence signal in the visible wavelengths, these protease indicators are particularly well suited for detection of protease activity in biol. samples, in particular in frozen tissue sections. Thus this invention also provides for methods of detecting protease activity in situ in frozen sections.

REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d his

(FILE 'HOME' ENTERED AT 17:04:42 ON 31 JAN 2004)

FILE 'MEDLINE, CAPLUS, BIOSIS, EMBASE, SCISEARCH, AGRICOLA' ENTERED AT 17:05:02 ON 31 JAN 2004

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L4 209 S L2 OR L3
L5 6 S L1 (P) L4
L6 4 DUPLICATE REMOVE L5 (2 DUPLICATES REMOVED)
L7 148086 S MAMMALIAN CELL
L8 0 S L6 (P) L7
L9 4 S (PEPTIDE OR POLYPEPTIDE) (P) L6
L10 3554 S CARBOXYTETRAMETHYLRHODAMINE OR CARBOXYRHODAMINE-X OR CARBOXYR
L11 2 S L10 (P) L4
L12 2 DUPLICATE REMOVE L11 (0 DUPLICATES REMOVED)
L13 0 S L12 NOT L6
L14 347 S PACKARD B?/AU
L15 302 S KOMORIYA A?/AU
L16 522 S L14 OR L15
L17 18 S L16 AND L4
L18 7 S L17 AND L1
L19 5 DUPLICATE REMOVE L18 (2 DUPLICATES REMOVED)
L20 1 S L19 NOT L6

=> log y

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

71.39

71.60

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

ENTRY

SESSION

CA SUBSCRIBER PRICE

-3.47

-3.47

STN INTERNATIONAL LOGOFF AT 17:14:20 ON 31 JAN 2004